

**ABSTRACT OF THE DISCLOSURE**

A system for monitoring conditions within a tire (12) including a sensor assembly (14) including a pressure sensor (36), an accelerometer (34), a temperature sensor (32), and a transmitter (40) to transmit signals indicative of current tire conditions. A remote transmitter (22) for actuating a remote keyless entry system (19) emits a signal to actuate a function of the keyless entry system (19) such as unlocking doors (20) of the motor vehicle (10). A receiver assembly (16) includes an amplitude shift keyed receiver (52) and a frequency shift keyed receiver (58) selectively engagable to receive radio frequency transmissions from the tire monitoring system or the remote keyless entry system (19). (Figure 1).

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